

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
5 August 2004 (05.08.2004)

PCT

(10) International Publication Number
WO 2004/065527 A3

- (51) International Patent Classification⁷: **C02F 1/58**
- (21) International Application Number:
PCT/SG2004/000014
- (22) International Filing Date: 15 January 2004 (15.01.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PI 20030237 24 January 2003 (24.01.2003) MY
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
28 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/065527 A3

(54) Title: METHODS FOR THE REMOVAL OF ORGANIC NITROGEN, ORGANIC AND INORGANIC CONTAMINANTS FROM AN AQUEOUS LIQUID

(57) Abstract: The present invention relates to methods for the removal of organic nitrogen, organic and inorganic contaminants from an aqueous liquid. More particularly, the present invention related to a process for the removal of organic and inorganic contaminants such as organic nitrogen and all other organic and inorganic contaminants from wastewater and ground water by conducting a two step method which includes the step of adding nitrosonium ion generator such as nitrous acid and nitrite in acidic media to remove organic nitrogen and followed by the step of adding hydrogen peroxide and activated carbon to remove all the other organic and inorganic contaminants.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG 2004/000014A. CLASSIFICATION OF SUBJECT MATTER
IPC⁷: C02F 1/58

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC⁷: C02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPOQUE; WPI; PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SU 923961 A1 (ZHANTALAI) 30 April 1982 (30.04.1982) (abstract); World Patent Index [online] London UK; Derwent Publications Ltd. [retrieved on 09.03.2004]. Retrieved from EPOQUE/WPI, DW 198309, Accession number 1983-22117K	1-3
X	JP 09 122690 A (KURITA WATER IND LTD) 13 May 1997 (13.05.1997) (abstract) [online] [retrieved on 09.03.2004]. Retrieved from EPOQUE/PAJ.	1-3
X	US 5716528 A (JASIM et al.) 10 February 1998 (10.02.1998) abstract; column 1, lines 52-67; claims 1, 8.	4-6,8

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Date of the actual completion of the international search 25 January 2005 (25.01.2005)	Date of mailing of the international search report 9 February 2005 (09.02.2005)
Name and mailing address of the ISA/ AT Austrian Patent Office Dresdner Straße 87, A-1200 Vienna	Authorized officer KOLLER G.
Facsimile No. +43 / 1 / 534 24 / 535	Telephone No. +43 / 1 / 534 24 / 458

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG 2004/000014

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000 135492 A (ASAHI ENG CO LTD) 16 May 2000 (16.05.2000) (abstract). [online] [retrieved on 25.02.2004]. Retrieved from: EPOQUE PAJ Database. --	4-7
X	JP 05 064789 A (MITSUBISHI GAS CHEM CO INC) 19 March 1993 (19.03.1993) (abstract). [online] [retrieved on 25.02.2004]. Retrieved from: EPOQUE PAJ Database. ----	4-8

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/SG 2004/000014

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP A 64789A2		none	
JP A 9122690A 2		none	
JP A 20001354 92A2		none	
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US A 5716528	1998-02-10	CA A1 2187568	1997-04-12